

# 12



OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/027,603

DATE: 07/31/2002  
TIME: 16:31:27

Input Set : A:\GENENT.1516CP1.txt  
Output Set: N:\CRF3\07312002\J027603.raw

ENTERED

4 <110> APPLICANT: Ferrara, Napoleone  
5 Watanabe, Colin  
6 Wood, William I.  
7 Shek, Theresa  
9 <120> TITLE OF INVENTION: EG-VEGF NUCLEIC ACIDS AND POLYPEPTIDES  
10 AND METHODS OF USE  
12 <130> FILE REFERENCE: GENENT.1516CP1  
14 <140> CURRENT APPLICATION NUMBER: 10/027,603  
15 <141> CURRENT FILING DATE: 2001-12-19  
17 <150> PRIOR APPLICATION NUMBER: 09/886,242  
18 <151> PRIOR FILING DATE: 2001-06-20  
20 <150> PRIOR APPLICATION NUMBER: 60/230,978  
21 <151> PRIOR FILING DATE: 2000-09-07  
23 <150> PRIOR APPLICATION NUMBER: 60/213,637  
24 <151> PRIOR FILING DATE: 2000-06-23  
26 <150> PRIOR APPLICATION NUMBER: 60/145,698  
27 <151> PRIOR FILING DATE: 1999-07-26  
29 <150> PRIOR APPLICATION NUMBER: 60/096,146  
30 <151> PRIOR FILING DATE: 1998-08-11  
32 <150> PRIOR APPLICATION NUMBER: PCT/US00/32678  
33 <151> PRIOR FILING DATE: 2000-12-01  
35 <150> PRIOR APPLICATION NUMBER: PCT/US00/08439  
36 <151> PRIOR FILING DATE: 2000-03-30  
38 <150> PRIOR APPLICATION NUMBER: PCT/US00/04914  
39 <151> PRIOR FILING DATE: 2000-02-24  
41 <150> PRIOR APPLICATION NUMBER: PCT/US00/00219  
42 <151> PRIOR FILING DATE: 2000-01-05  
44 <150> PRIOR APPLICATION NUMBER: PCT/US99/12252  
45 <151> PRIOR FILING DATE: 1999-06-02  
47 <160> NUMBER OF SEQ ID NOS: 18  
49 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
51 <210> SEQ ID NO: 1  
52 <211> LENGTH: 1415  
53 <212> TYPE: DNA  
54 <213> ORGANISM: Homo sapiens  
56 <220> FEATURE:  
58 <400> SEQUENCE: 1  
59 tggcctcccc agcttgccag gcacaaggct gagcgggagg aagcgagagg catctaagca 60  
60 ggcagtggtt tgccttcacc ccaagtgacc atgagagggt ccacgcgagt ctcaatcatg 120  
61 ctctctctag taactgtgtc tgactgtgct gtgatcacag gggcctgtga gcgggatgtc 180  
62 cagtggtggg caggcacctg ctgtgccatc agcctgtggc ttcgagggct gcggatgtgc 240  
63 acccgctg ggcgggaagg cgaggagtgc caccceggca gccacaagg ccccttcttc 300  
64 aggaaacgca agcaccacac ctgtccttgc ttgccaacc tgctgtgctc caggttcccc 360

## RAW SEQUENCE LISTING

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Input Set : A:\GENENT.1516CPl.txt

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65 gacggcaggt accgctgctc catggacttg aagaacatca atttttaggc gcttgcctgg 420
66 tctcaggata cccaccatcc ttttcctgag cacagcctgg atttttatatt ctgccatgaa 480
67 acccagctcc catgactctc ccagtcctta cactgactac cctgatctct cttgtctagt 540
68 acgcacatat gcacacaggc agacatacct cccatcatga catgggtccc aggtggcct 600
69 gaggatgtca cagcttgagg ctgtggtgtg aaaggtggcc agcctgggtc tcttccctgc 660
70 tcaggctgcc agagaggtgg taaatggcag aaaggacatt cccctcccc tccccaggtg 720
71 acctgctctc tttcctgggc cctgcccctc tccccacatg tatccctcgg tctgaattag 780
72 acattcctgg gcacaggctc ttgggtgcat tgctcagagt cccaggtcct ggctgacct 840
73 tcaggccctt cactgtaggt ctgtgaggac caatttgggt gtagttcatc ttcctcgtat 900
74 tgggttaactc cttagtttca gaccacagac tcaagattgg ctcttcccag agggcagcag 960
75 acagtcaccc caaggcaggt gtaggagacc cagggaggcc aatcagcccc ctgaagactc 1020
76 tgggtccagc cagcctgtgg cttgtggcct gtgacctgtg accttctgcc agaattgtca 1080
77 tgctctgag gccccctctt accacacttt accagttaac cactgaagcc cccaattccc 1140
78 acagcttttc cattaataatg caaatgggtg tggttcaatc taatctgata ttgacatatt 1200
79 agaaggcaat taggggtgtt ccttaaacaa ctcccttcca aggatcagcc ctgagagcag 1260
80 gttggtgact ttgaggaggg cagtcctctg tccagattgg ggtgggagca agggacaggg 1320
81 agcagggcag gggctgaaaag gggcactgat tcagaccagg gaggcaacta cacaccaaca 1380
82 tgctggcttt agaataaaaag caccaactga aaaaa 1415

```

84 &lt;210&gt; SEQ ID NO: 2

85 &lt;211&gt; LENGTH: 105

86 &lt;212&gt; TYPE: PRT

87 &lt;213&gt; ORGANISM: Homo sapiens

89 &lt;220&gt; FEATURE:

91 &lt;400&gt; SEQUENCE: 2

```

92 Met Arg Gly Ala Thr Arg Val Ser Ile Met Leu Leu Leu Val Thr Val
93 1 5 10 15
94 Ser Asp Cys Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Val Gln Cys
95 20 25 30
96 Gly Ala Gly Thr Cys Cys Ala Ile Ser Leu Trp Leu Arg Gly Leu Arg
97 35 40 45
98 Met Cys Thr Pro Leu Gly Arg Glu Gly Glu Cys His Pro Gly Ser
99 50 55 60
100 His Lys Val Pro Phe Phe Arg Lys Arg Lys His His Thr Cys Pro Cys
101 65 70 75 80
102 Leu Pro Asn Leu Leu Cys Ser Arg Phe Pro Asp Gly Arg Tyr Arg Cys
103 85 90 95
104 Ser Met Asp Leu Lys Asn Ile Asn Phe
105 100 105

```

108 &lt;210&gt; SEQ ID NO: 3

109 &lt;211&gt; LENGTH: 374

110 &lt;212&gt; TYPE: DNA

111 &lt;213&gt; ORGANISM: Homo sapiens

113 &lt;220&gt; FEATURE:

115 &lt;221&gt; NAME/KEY: unsure

116 &lt;222&gt; LOCATION: (0)...(0)

117 &lt;223&gt; OTHER INFORMATION: n = A, T, C or G

119 &lt;400&gt; SEQUENCE: 3

```

W--> 120 tggctcccca gcttgccagg cacaaggctg agctggagga agcgagangc atctaagcag 60
121 gcagtgtttt gccttcaccc caagtgacca tgagaggtgc cagcgagtc tcaatcatgc 120

```

RAW SEQUENCE LISTING  
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Input Set : A:\GENENT.1516CP1.txt  
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```

122 tcctcctagt aactgtgtct gactgtgctg tgatcacagg ggcctgtgag cgggatgtcc 180
123 agtgtggggc aggcacctgc tgtgccatca gcctgtggct tcgagggctg cggatgtgca 240
124 ccccgctggg gcgggaaggc gaggagtgcc accccggcag ccacaaggtc cccttcttca 300
125 ggaaacgcaa gcaccacacc tgtcttgttg cccaacctgc tgtgctccag ttccggacgg 360
126 cagtacgctg ctca 374
128 <210> SEQ ID NO: 4
129 <211> LENGTH: 100
130 <212> TYPE: PRT
131 <213> ORGANISM: Homo sapiens
133 <400> SEQUENCE: 4
134 Met Leu Leu Leu Leu Leu Leu Pro Pro Leu Leu Leu Pro Arg Ala
135 1 5 10 15
136 Gly Asp Ala Ala Val Ile Thr Gly Ala Cys Asp Lys Asp Ser Gln Cys
137 20 25 30
138 Gly Gly Gly Met Cys Cys Ala Val Ser Ile Trp Val Lys Ser Ile Arg
139 35 40 45
140 Ile Cys Thr Pro Met Gly Lys Leu Gly Asp Ser Cys His Pro Leu Thr
141 50 55 60
142 Arg Lys Val Pro Phe Phe Gly Arg Arg Met His His Thr Cys Pro Cys
143 65 70 75 80
144 Leu Pro Gly Leu Ala Cys Leu Arg Thr Ser Phe Asn Arg Phe Ile Cys
145 85 90 95
146 Leu Ala Gln Lys
147 100
150 <210> SEQ ID NO: 5
151 <211> LENGTH: 79
152 <212> TYPE: PRT
153 <213> ORGANISM: Snake
155 <400> SEQUENCE: 5
156 Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Leu Gln Cys Gly Lys Gly
157 1 5 10 15
158 Thr Cys Cys Ala Val Ser Leu Trp Ile Lys Ser Val Arg Val Cys Thr
159 20 25 30
160 Pro Val Gly Thr Ser Gly Glu Asp Cys His Pro Ala Ser His Lys Ile
161 35 40 45
162 Pro Phe Ser Gly Gln Arg Met His His Thr Cys Pro Cys Ala Pro Asn
163 50 55 60
164 Leu Ala Cys Val Gly Thr Pro Lys Lys Phe Lys Cys Leu Ser Lys
165 65 70 75
168 <210> SEQ ID NO: 6
169 <211> LENGTH: 83
170 <212> TYPE: PRT
171 <213> ORGANISM: Homo sapiens
173 <400> SEQUENCE: 6
174 Cys Asp Asn Gln Arg Asp Cys Gln Pro Gly Leu Cys Cys Ala Phe Gln
175 1 5 10 15
176 Arg Gly Leu Leu Phe Pro Val Cys Thr Pro Leu Pro Val Glu Gly Glu
177 20 25 30
178 Leu Cys His Asp Pro Ala Ser Arg Leu Leu Asp Leu Ile Thr Trp Glu

```

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Input Set : A:\GENENT.1516CP1.txt

Output Set: N:\CRF3\07312002\J027603.raw

```

179          35          40          45
180 Leu Glu Pro Asp Gly Ala Leu Asp Arg Cys Pro Cys Ala Ser Gly Leu
181          50          55          60
182 Leu Cys Gln Pro His Ser His Ser Leu Val Tyr Val Cys Lys Pro Thr
183 65          70          75          80
184 Phe Val Gly
188 <210> SEQ ID NO: 7
189 <211> LENGTH: 79
190 <212> TYPE: PRT
191 <213> ORGANISM: Xenopus
193 <400> SEQUENCE: 7
194 Cys Leu Arg Ser Thr Asp Cys Ala Pro Gly Leu Cys Cys Ala Arg His
195 1          5          10          15
196 Phe Trp Ser Lys Ile Cys Lys Pro Val Leu Asp Glu Gly Gln Val Cys
197          20          25          30
198 Thr Lys His Arg Arg Lys Gly Ser His Gly Leu Glu Ile Phe Gln Arg
199          35          40          45
200 Cys His Cys Gly Ala Gly Leu Ser Cys Arg Leu Gln Lys Gly Glu Phe
201          50          55          60
202 Thr Thr Val Pro Lys Thr Ser Arg Leu His Thr Cys Gln Arg His
203 65          70          75
206 <210> SEQ ID NO: 8
207 <211> LENGTH: 79
208 <212> TYPE: PRT
209 <213> ORGANISM: Porcine
211 <400> SEQUENCE: 8
212 Cys Leu Asn Ser Ala Gln Cys Lys Ser Asn Cys Cys Gln His Asp Thr
213 1          5          10          15
214 Ile Leu Ser Leu Ser Arg Cys Ala Leu Lys Ala Arg Glu Asn Ser Glu
215          20          25          30
216 Cys Ser Ala Phe Thr Leu Tyr Gly Val Tyr Tyr Lys Cys Pro Cys Glu
217          35          40          45
218 Arg Gly Leu Thr Cys Glu Gly Asp Lys Ser Leu Val Gly Ser Ile Thr
219          50          55          60
220 Asn Thr Asn Phe Gly Ile Cys His Asp Val Gly Arg Ser Ser Asp
221 65          70          75
224 <210> SEQ ID NO: 9
225 <211> LENGTH: 17
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
232 <400> SEQUENCE: 9
233 ccggcagcca caaggtc
235 <210> SEQ ID NO: 10
236 <211> LENGTH: 18
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:

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## RAW SEQUENCE LISTING

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Input Set : A:\GENENT.1516CP1.txt

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241 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide  
243 <400> SEQUENCE: 10  
244 tgggcaagca aggacagg 18  
246 <210> SEQ ID NO: 11  
247 <211> LENGTH: 26  
248 <212> TYPE: DNA  
249 <213> ORGANISM: Artificial Sequence  
251 <220> FEATURE:  
252 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide  
254 <400> SEQUENCE: 11  
255 ccttcttcag gaaacgcaag caccac 26  
257 <210> SEQ ID NO: 12  
258 <211> LENGTH: 19  
259 <212> TYPE: DNA  
260 <213> ORGANISM: Artificial Sequence  
262 <220> FEATURE:  
263 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide  
265 <400> SEQUENCE: 12  
266 aatgacgagg gcctggagt 19  
268 <210> SEQ ID NO: 13  
269 <211> LENGTH: 21  
270 <212> TYPE: DNA  
271 <213> ORGANISM: Artificial Sequence  
273 <220> FEATURE:  
274 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide  
276 <400> SEQUENCE: 13  
277 ttgatccgca taatctgcat g 21  
279 <210> SEQ ID NO: 14  
280 <211> LENGTH: 26  
281 <212> TYPE: DNA  
282 <213> ORGANISM: Artificial Sequence  
284 <220> FEATURE:  
285 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide  
287 <400> SEQUENCE: 14  
288 tgtgcccact gaggagtcca acatca 26  
290 <210> SEQ ID NO: 15  
291 <211> LENGTH: 35  
292 <212> TYPE: DNA  
293 <213> ORGANISM: Artificial Sequence  
295 <220> FEATURE:  
296 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide  
298 <400> SEQUENCE: 15  
299 aggccctacg tgcggcctca cacagcctgt tctga 35  
301 <210> SEQ ID NO: 16  
302 <211> LENGTH: 35  
303 <212> TYPE: DNA  
304 <213> ORGANISM: Artificial Sequence  
306 <220> FEATURE:  
307 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/027,603

DATE: 07/31/2002  
TIME: 16:31:29

Input Set : A:\GENENT.1516CP1.txt  
Output Set: N:\CRF3\07312002\J027603.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 48